

NE94 RDD Valuation Survey Overview

Fishery managers are required by law to report the economic consequences of their decisions regarding the allocations of limited fish resources between commercial and recreational fishing sectors. High quality economic data are needed to evaluate the economic claims of constituents and to resolve potential political conflicts between the commercial and recreational fishing constituents as they compete for the limited fish resources. However, fishery managers do not currently have access to much economic information about recreational fisheries. This study intends to help fill the data and research gaps in our knowledge of the economics of marine recreational fishing.

Our objectives, broadly characterized, are twofold. The first is to collect social and economic data on the people who participate in marine recreational fishing in the various regions of the continental United States. Second, these data will be used to estimate statistical models of the demand for marine recreational fishing for seven to nine regionally selected species that are highly sought by marine recreational anglers and are either currently managed by the Fishery Management Councils and/or the Interstate Marine Fisheries Commissions, or are expected to come under management in the near future. For example, the 1994 Supplemental Economic Survey conducted in the Northeast Region as an add-on to the Marine Recreational Fisheries Statistics Survey (MRFSS) asked about bluefish, striped bass, summer flounder, Atlantic cod, black sea bass, tautog, scup, and weakfish (scup was targeted in the North Atlantic and weakfish in the Middle Atlantic).

The species-specific demand models (travel cost models and random utility models) will be specified to begin to answer questions about the economic value of or costs of two common forms of regulations imposed on anglers: (1) participation and access and (2) changes in catch (e.g., creel limits, catch and release, minimum size). In keeping with the state of the art in recreational demand modeling, the demand models will be estimated as being contingent on the choice to go marine recreational fishing and the choice of target species. This study will not estimate economic impact statistics, including multiplier effects for regional income or employment. Although, some of the data we collect could be used by others for this purpose (particularly data on anglers' expenditures), credible regional economic impact analysis requires an entirely different survey methodology. The focus of this large scale data collection and research project will be on the economic valuation of marine recreational fishing and catches by anglers.

Add-On Economics Telephone Survey Instrument

Individuals at least 16 years of age are eligible to respond to the add-on telephone survey. We believe responses from individuals less than 16 years old will not be valid and reliable within the objectives of the study. In addition, because of the personalized nature of some of the questions, proxy respondent-based reporting will not be allowed. It is understood that proxy respondents generally range from 15 to 20 percent of the total sample of 2-month fishing households. Further sampling controls based on gender will not be needed.

Households responding to the MRFSS Telephone Survey shall be categorized according to how recently residents of that household fished in salt water. Categories are defined as follows:

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|-------------|---|
| Category 1: | no household residents ever go saltwater sport fishing; |
| Category 2: | one or more household residents have previously fished recreationally in saltwater, but none have done so in the last 12 months; |
| Category 3: | one or more household residents have fished recreationally in saltwater in the last 12 months but none of them fished within the last 2 months; |
| Category 4: | one or more household residents have fished recreationally in saltwater in the last two months. |

General Procedures

The economic add-on telephone survey will be administered to 2-month saltwater anglers, saltwater anglers who have fished in the last 12 months but not in the last 2 months, anglers who have fished before but not

in the last 12 months, and non-anglers. Respondents at least 16 years of age are eligible to complete the survey. If an individual is under the age of 16 or an interviewer is unable to determine the age, then terminate and thank respondent.

The survey design calls for interviewing household members who would not be surveyed within the usual MRFSS telephone survey. As described above, there are four categories of respondents, although there are only two questionnaire versions.

Category 1

If the initial respondent answers negatively to the question "Does anyone in this house go saltwater sport fishing?", version A is to be used.

Categories 2 and 3

If the initial respondent indicates there are saltwater anglers in the household but no one fished in the last two months, the interviewer will attempt to interview one of those anglers. If the respondent who first answered the call is an angler, only that respondent will be interviewed. If the initial respondent is not an angler, the interviewer will ask to speak with one of the anglers. If no angler is immediately available, no one should be administered the economic questionnaire, the interview should be terminated, and no call back should be made. If an angler is available at the time of the initial MRFSS call, version A of the Economic Questionnaire should be administered. Only one angler per household should be interviewed. Category 2 anglers are those who have not fished in the last year. Category 3 anglers are those who have fished in the last year but not in the last two months.

Category 4

This category is 2-month saltwater anglers who are administered the routine MRFSS interview about fishing trips. Version B of the Economic Questionnaire is to be administered to **all** MRFSS respondents. The Economic Questionnaire is **not** to be administered when obtaining proxy information.

Telephone Survey Instrument

Version A

Interviewer should only ask these questions of category 1, 2, and 3 respondents. Version A is composed of two parts: (1) a Screening Questionnaire, and (2) an Economic Questionnaire. Part I determines if the initial telephone respondent is a saltwater angler and can be administered the Economic Questionnaire. If the initial respondent is not eligible, the interviewer requests to speak to an angler and when successful, introduces the survey to the angler and begins Part II. Part II elicits demographic and economic information from the respondent.

Version B

Interviewers will ask these questions of those individuals who fished in saltwater in the last two months (routine MRFSS trip questionnaire respondents).

Interview Justification

At the present time, no information on inactive anglers i.e., those who did not fish during the two-month period prior to the interview, is collected by the base survey instruments. This telephone survey is designed to develop an understanding about the social and demographic characteristics of active and non-active fishing households and to determine some of the reasons individuals do and don't fish. This information also allows us to determine whether samples drawn from the two active groups (intercept sample and phone sample) are drawn from the same group.

Data Sets

Data sets can be obtained by contacting the National Marine Fisheries Service, Science and Technology division.

Administrative Statistics

Final Disposition Results														
1994	Busy		No Answer		Not Available for Screening		Not in Service		Business Phone		Institutional Housing		Language Problem	
North Atlantic	Count	%	Count	%	Count	%	Count	%	Count	%	Count	%	Count	%
Wave I														
Wave II	33	0.7	448	9.2	65	1.3	727	15.0	409	8.4	16	0.3	87	1.8
Wave III	73	0.6	893	7.9	167	1.5	1703	15.1	1099	9.8	30	0.3	196	1.7
Wave IV	90	0.7	1328	9.8	201	1.5	1528	11.2	1221	9.0	36	0.3	259	1.9
Wave V	54	0.5	1001	9.1	153	1.4	1683	15.3	1018	9.2	31	0.3	184	1.7
Wave VI	22	0.7	312	9.9	58	1.8	536	17.0	240	7.6	7	0.2	57	1.8
Mid-Atlantic														
Wave I														
Wave II	62	0.8	933	11.6	138	1.7	881	11.0	841	10.5	22	0.3	164	2.0
Wave III	150	0.6	2439	10.2	353	1.5	2631	11.0	2288	9.6	56	0.2	437	1.8
Wave IV	204	0.6	3678	11.0	498	1.5	3769	11.3	3272	9.8	74	0.2	537	1.6
Wave V	153	0.7	2193	10.5	389	1.9	2372	11.4	2253	10.8	55	0.3	340	1.6
Wave VI	76	0.9	909	10.8	173	2.0	1026	12.1	811	9.6	18	0.2	149	1.8
North Atlantic	272	0.6	3982	9.1	644	1.5	6177	14.1	3987	9.1	120	0.3	783	1.8
Mid-Atlantic	645	0.7	10152	10.7	1551	1.6	10679	11.3	9465	10.0	225	0.2	1627	1.7
North East	917	0.7	14134	10.2	2195	1.6	16856	12.2	13452	9.7	345	0.2	2410	1.7

Final Disposition Results cont'd														
1994	H.H. Previously Called		Refused		Answering Service		Answering Machine		Wrong Number		Wrong County		Not Permanent Residence	
North Atlantic	Count	%	Count	%	Count	%	Count	%	Count	%	Count	%	Count	%
Wave I														
Wave II	8	0.2	689	14.2	0	0.0	243	5.0	27	0.6	145	3.0	97	2.0
Wave III	3	0.0	1265	11.2	13	0.3	587	5.2	30	0.3	335	3.0	360	3.2
Wave IV	9	0.1	1678	12.3	3	0.0	717	5.3	46	0.3	424	3.1	520	3.8
Wave V	8	0.1	1380	12.5	3	0.0	342	3.1	34	0.3	358	3.2	168	1.5
Wave VI	1	0.0	404	12.8	0	0.0	140	4.4	7	0.2	118	3.7	31	1.0
Mid-Atlantic														
Wave I														
Wave II	11	0.1	1052	13.1	3	0.0	462	5.7	34	0.4	210	2.6	149	1.9
Wave III	12	0.1	2700	11.3	12	0.1	1257	5.3	70	0.3	651	2.7	604	2.5
Wave IV	25	0.1	3854	11.5	10	0.0	1785	5.3	80	0.2	988	3.0	867	2.6
Wave V	14	0.1	2452	11.7	6	0.0	844	4.0	59	0.3	564	2.7	350	1.7
Wave VI	5	0.1	1198	14.2	3	0.0	327	3.9	30	0.4	242	2.9	136	1.6
North Atlantic	29	0.1	5416	12.3	19	0.0	2029	4.6	144	0.3	1380	3.1	1176	2.7
Mid-Atlantic	67	0.1	11256	11.9	34	0.0	4675	4.9	273	0.3	2655	2.8	2106	2.2
North East	96	0.1	16672	12.0	53	0.0	6704	4.8	417	0.3	4035	2.9	3282	2.4

Dialing Results																
1994	Refuse 12 Month Question		Not Answered 12 Month Question		No Fishing Past 12 Months		Refuse 2 Month Question		Not Answered 2 Month Question		No Fishing Past 2 Months		First Time Contact/ Non-fishing		Fishing Household	
North Atlantic	Count	%	Count	%	Count	%	Count	%	Count	%	Count	%	Count	%	Count	%
Wave I																
Wave II	0	0.0	0	0.0	1647	33.9	0	0.0	2	0.0	176	3.6	6	0.1	28	0.6
Wave III	0	0.0	0	0.0	3988	35.4	0	0.0	7	0.1	227	2.0	21	0.2	262	2.3
Wave IV	0	0.0	0	0.0	4861	35.7	0	0.0	8	0.1	154	1.1	41	0.3	478	3.5
Wave V	0	0.0	0	0.0	3605	32.7	0	0.0	6	0.1	239	2.2	522	4.7	247	2.2
Wave VI	0	0.0	0	0.0	1062	33.7	0	0.0	5	0.2	113	3.6	10	0.3	26	0.8
Mid-Atlantic																
Wave I																
Wave II	0	0.0	0	0.0	2656	33.0	0	0.0	7	0.1	299	3.7	25	0.3	92	1.1
Wave III	0	0.0	0	0.0	8893	37.3	0	0.0	6	0.0	540	2.3	66	0.3	673	2.8
Wave IV	0	0.0	0	0.0	11969	35.8	0	0.0	39	0.1	491	1.5	108	0.3	1223	3.7
Wave V	0	0.0	0	0.0	7046	33.7	0	0.0	20	0.1	488	2.3	730	3.5	561	2.7
Wave VI	0	0.0	0	0.0	2889	34.2	0	0.0	9	0.1	295	3.5	32	0.4	119	1.4
North Atlantic	0	0	0	0	15163	34.5	0	0	28	0.1	909	2.1	600	1.4	1041	2.4
Mid-Atlantic	0	0.0	0	0.0	33453	35.3	0	0.0	81	0.1	2113	2.2	961	1.0	2668	2.8
North East	0	0.0	0	0.0	48616	35.1	0	0.0	109	0.1	3022	2.2	1561	1.1	3709	2.7